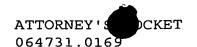
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WHAT IS CLAIMED IS:

1. A method for providing an internal topology of a node within a network, comprising:

determining asymmetric connections between traffic bearing components in a network node;

determining an intranode connectivity between the traffic bearing components based on the connections;

distributing a model of the node indicative of the intranode connectivity to a disparate node in a network with the node; and

using the model at the disparate node in determining a routing path through the network.

- 2. The method of Claim 1, wherein the traffic bearing components comprise receiver transmitter pairs (RTPs).
- 3. The method of Claim 1, wherein the traffic bearing components comprise receiver transmitter pairs 20 (RTPs) and lower speed interfaces to external nodes coupled to the network.
 - 4. The method of Claim 1, further comprising determining all possible internode connectivity between the traffic bearing components based on the asymmetric connections.
- 5. The method of Claim 1, further comprising distributing the model using opaque link state 30 advertisements (LSAs).

- 6. The method of Claim 1, wherein the network comprises a private network.
- 7. The method of Claim 1, further comprising determining internode connectivity between the traffic bearing components by assigning weights to the asymmetric connections based on their speed.
 - 8. The method of Claim 1, further comprising:
 assigning a first weight for higher speed
 connections and a second higher weight for lower speed
 connections to generate weighted connections; and

utilizing open shortest path first on the weighted connections at the disparate node to determine the routing path through the network.

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9. A system for providing an internal topology of a node within a network, comprising:

means for determining asymmetric connections between traffic bearing components in a network node;

means for determining an intranode connectivity between the traffic bearing components based on the connections;

means for distributing a model of the node indicative of the intranode connectivity to a disparate node in a network with the node; and

means for using the model at the disparate node in determining a routing path through the network.

- 10. The system of Claim 9, wherein the traffic bearing components comprise receiver transmitter pairs (RTPs).
- 11. The system of Claim 9, wherein the traffic 20 bearing components comprise receiver transmitter pairs (RTPs) and lower speed interfaces to external nodes coupled to the network.
- 12. The system of Claim 9, further comprising means
 25 for determining all possible internode connectivity
 between the traffic bearing components based on the
 asymmetric connections.
- 13. The system of Claim 9, further comprising means 30 for distributing the model using opaque link state advertisements (LSAs).

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- 14. The system of Claim 9, wherein the network comprises a private network.
- 15. The system of Claim 9, further comprising means for determining internode connectivity between the traffic bearing components by assigning weights to the asymmetric connections based on their speed.
- 16. The system of Claim 9, further comprising:
 means for assigning a first weight for higher speed
 connections and a second higher weight for lower speed

connections and a second higher weight for lower speed connections to generate weighted connections; and

means for utilizing open shortest path first on the weighted connections at the disparate node to determine the routing path through the network.

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17. A system for providing an internal topology of a node within a network, comprising:

logic encoded in media; and

the logic operable to determine asymmetric connections between traffic bearing components in a network node, to determine an intranode connectivity between the traffic bearing components based on the connections, to distribute a model of the node indicative of the intranode connectivity to a disparate node in a network with the node and to use the model at the disparate node in determining a routing path through the network.

18. The system of claim 17, wherein the traffic bearing components comprise receiver transmitter pairs (RTPs).

- 19. The system of Claim 17, wherein the traffic 20 bearing components comprise receiver transmitter pairs (RTPs) and lower speed interfaces to external nodes coupled to the network.
- 20. The system of Claim 17, the logic further operable to determine all possible internode connectivity between the traffic bearing components based on the asymmetric connections.
- 21. The system of Claim 17, the logic further operable to distribute the model using opaque link state advertisements (LSAs).

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- 22. The system of Claim 17, wherein the network comprises a private network.
- 23. The system of Claim 17, the logic further operable to determine internode connectivity between the traffic bearing components by assigning weights to the asymmetric connections based on their speed.
- 24. The system of Claim 17, the logic further operable to assign a first weight for higher speed connections and a second higher weight for lower speed connections to generate weighted connections and to utilize open shortest path first on the weighted connections at the disparate node to determine the routing path through the network.

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